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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/826,963	04/16/2004	Andrew Blake	MS1-1938US	2132
	7590 05/22/2007 CORPORATION	EXAMINER		
ONE MICROS	OFT WAY	COUSO, YON JUNG		
REDMOND, WA 98052-6399			ART UNIT	PAPER NUMBER
			2624	
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			NOTIFICATION DATE	DELIVERY MODE
			05/22/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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Office Action Summary			Applicant(s)			
		10/826,963	BLAKE ET AL.			
	omoc Addon Gammary	Examiner	Art Unit			
	The MANUALO DATE And	Yon Couso	2624			
Period fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timusely and will expire SIX (6) MONTHS from a cause the application to become ABANDONE.	I. lely filed the mailing date of this communication.			
Status						
2a)	Responsive to communication(s) filed on 16 Ap This action is FINAL . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Dispositi	on of Claims					
5)⊠ 6)⊠ 7)⊠ 8)□ Applicati 9)□ 10)□	Claim(s) 1-27 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) 1-13 and 27 is/are allowed. Claim(s) 14 is/are rejected. Claim(s) 15-26 is/are objected to. Claim(s) are subject to restriction and/or on Papers The specification is objected to by the Examine. The drawing(s) filed on is/are: a) acceed Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examine.	vn from consideration. r election requirement. r. epted or b) □ objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority u	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) ☐ Notic 3) ⊠ Inforr	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date 4/16/04.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te			

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1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 14 is rejected under 35 U.S.C. 102(b) as being anticipated by Steffens et al (US Patent No. 6,301,370).

As to claim 14, Steffens teaches a computer program product encoding a computer program for executing on a computer system a computer process for detecting one or more artifacts in a virtual image synthesized from stereo images, the computer process comprising: generating a projected image for each of the stereo images by projecting each stereo image into a target viewpoint based on a disparity map of the stereo images (50, 52, 54, and 56 in figure 5); computing differences between corresponding pixels in the projected images to produce a difference map, wherein a computed difference exceeding a threshold indicates an artifact (58, 60, 62, and 64 in figure 5 and figure 7).

- 2. Claims 15-26 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 3. Claims 1-13 and 17 are allowed.

Prior art fails to teach or suggest a system and a method for detecting one or more artifacts in a virtual image synthesized from stereo images, the method comprising; generating a disparity map from the stereo images, generating a projected

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image for each of the stereo images by projecting each stereo image into a target viewpoint based on the disparity map, computing color-distances between corresponding pixels in the projected images to produce a difference map, and designating one or more locations in the difference map associated with a computed color-distance exceeding a threshold as the one or more artifacts.

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Toyama et al and Chen et al are also cited.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yon Couso whose telephone number is (571) 272-7448. The examiner can normally be reached on Monday through Friday from 8:30 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eileen Lillis, can be reached on (571) 272-6928. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

YJC

May 10, 2007